IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

E. I. DUPONT DE NEMOURS AND COMPANY

JAMES K. PRESNAIL ET AL.

CASE NO.: BB1441 US NA

GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HEREWITH

EXAMINER: UNKNOWN

FOR: ARTHROPOD DEFENSINS

APPLICATION NO.: UNKNOWN

Assistant Commissioner for Patents Washington, DC 20231

Sir:

DECLARATION IN ACCORDANCE WITH 37 CFR 1.821

I hereby state that the content of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR 1.821(c) and (e), respectively are the same.

Respectfully submitted,

THOMAS M. RIZZO

ATTORNEY FOR APPLICANTS

thomas M Ryin

REGISTRATION NO. 41,272 TELEPHONE: 302-892-7760 FACSIMILE: 302-892-1026

Dated: Spril 10, 200,

SEQUENCE LISTING

```
<110> Presnail, James
      Weng, Zude
      Wong, James
<120> Arthropod Defensins
<130> BB1441 US NA
<140>
<141>
<150> 60/197279
<151> 2000-04-14
<160> 11
<170> Microsoft Office 97
<210> 1
<211> 461
<212> DNA
<213> Scolopendra canidens DS
<220>
<221> unsure
<222> (408)
<220>
<221> unsure
<222> (439)
<220>
<221> unsure
<222> (455)
<400> 1
gcaatttcaa aatttttttc tettetttet ttaegeagtg eteggeaaca tgaagaetgt 60
gtatgttatc ttcttagttg ctcttcttgt attagcatta gctggaactt acgtggaagc 120
tggtttcggc tgccccgggg accaatatga atgcaataga cattgcaggg gtaatggatt 180
tactgggggt tactgcactg gatttctgaa gttcacgtgt aaatgctaca catgatcaaa 240
atatgatttt ctggcagtct tccaatttca acaaagggtc tacaacagtc tacagtaaaa 300
tagaaaatta cgaaatctac agccttgcac tcacattaat acctttggga tgtcattgaa 360
atttgcattg ttaataataa tacatgtttg gtttttttca gagaatantt tatagaaaca 420
aaatttttaa ataaatggnt ataatttgga taaanaaaaa a
<210> 2
<211> 61
<212> PRT
<213> Scolopendra canidens DS
Met Lys Thr Val Tyr Val Ile Phe Leu Val Ala Leu Leu Val Leu Ala
                                     10
Leu Ala Gly Thr Tyr Val Glu Ala Gly Phe Gly Cys Pro Gly Asp Gln
                                 25
                                                      30
Tyr Glu Cys Asn Arg His Cys Arg Gly Asn Gly Phe Thr Gly Gly Tyr
                             40
Cys Thr Gly Phe Leu Lys Phe Thr Cys Lys Cys Tyr Thr
     50
                         55
```

1

```
<210> 3
<211> 406
<212> DNA
<213> Vaejovis carolinianus
<400> 3
ctctactaca atcactaagt tctttctcca ctcagcttca agaatgaaat ccatagctat
tattttcatc gttcttgttg ccttctgtat tttggaggat gggattgtag aagctggttt 120
tggatgtccc tttaatgcag gaaaatgcca tagacattgc aaaagtattc gtcgtagagg 180
aggettttge agaggaactt teaggacaac etgegtttge tataggtgaa aateegattt 240
atttgccata atggagaccc gtttttattg aatatcgtca gtttccaatt aaagtcattt 300
cgagccatac tgaataattt tgtaatctaa caacagatgc aatagtttaa ataaacttat 360
<210> 4
<211> 61
<212> PRT
<213> Vaejovis carolinianus
<400> 4
Met Lys Ser Ile Ala Ile Ile Phe Ile Val Leu Val Ala Phe Cys Ile
  1
                                  10
Leu Glu Asp Gly Ile Val Glu Ala Gly Phe Gly Cys Pro Phe Asn Ala
            20
Gly Lys Cys His Arg His Cys Lys Ser Ile Arg Arg Gly Gly Phe
                           40
Cys Arg Gly Thr Phe Arg Thr Thr Cys Val Cys Tyr Arg
<210> 5
<211> 386
<212> DNA
<213> Argiope sp.
<220>
<221> unsure
<222> (351)
<220>
<221> unsure
<222> (364)..(365)
<220>
<221> unsure
<222> (386)
<400> 5
catttccaaa aaaatgaatg cgagagtcct gttgttgatc tgcctagtcg tctgtgcttt
tgccacagtg gccgtggaag ctggtttcgg ctgccccttc gaccagatgc agtgtcacaa 120
tcattgcagg agcatcaaat acaggggagg atactgcacc aacttattca agcgcacctg 180
caagtgttac ggatgatgac cccctcccc tctcagacag gagcccacac ctttcattga 240
catccgattc cgattttcca aatgcaaatt gtaacacatg atgaatttga tgcaagtgcc 300
aaannaaaaa aaaaaaaa aaaaan
<210> 6
<211> 60
<212> PRT
<213> Argiope sp.
```

```
<400> 6
Met Asn Ala Arg Val Leu Leu Ile Cys Leu Val Val Cys Ala Phe
                                     10
Ala Thr Val Ala Val Glu Ala Gly Phe Gly Cys Pro Phe Asp Gln Met
             20
                                 25
                                                      30
Gln Cys His Asn His Cys Arg Ser Ile Lys Tyr Arg Gly Gly Tyr Cys
                             40
Thr Asn Leu Phe Lys Arg Thr Cys Lys Cys Tyr Gly
<210> 7
<211> 351
<212> DNA
<213> Argiope sp.
<400> 7
cttggttctg tcgacatttc caaaaaaatg aatgcgagag ttctgttgtt gatctgccta 60
gtegtetgtg cttttgccac agtgaccgtg gaagetggtt teggetgeee ettegaccaq 120
atqcaqtqtc acaatcattq caggagcatc aaatataggg gaggatactg caccaactta 180
ttcaagcgca cctgcaagtg ttacggatga tgaccccct cccctctcag acaggagccc 240
tcacctttca ctgacatccg attccgattt tccaaatgca aattgtaaca catgatgaat 300
ttgattcaag tgcccttaaa tttaaataaa tttgatttta cattttaaaa a
<210> 8
<211> 60
<212> PRT
<213> Argiope sp.
<400> 8
Met Asn Ala Arg Val Leu Leu Leu Ile Cys Leu Val Val Cys Ala Phe
                                     10
Ala Thr Val Thr Val Glu Ala Gly Phe Gly Cys Pro Phe Asp Gln Met
             20
                                 25
Gln Cys His Asn His Cys Arg Ser Ile Lys Tyr Arg Gly Gly Tyr Cys
                             40
Thr Asn Leu Phe Lys Arg Thr Cys Lys Cys Tyr Gly
     50
<210> 9
<211> 537
<212> DNA
<213> Argiope sp.
<220>
<221> unsure
<222> (429)
<220>
<221> unsure
<222> (498)
<220>
<221> unsure
<222> (524)
<400> 9
tttatctatt ttttgatgtg cgtgactttc atcatggctc tttcgtatcc cccacttgtg 60
gatgcaggat tcgggtgtcc tttctgccaa ggggaatgta accttcactg caagcacgtg 120
gtcaaggcaa ggggggatt ttgcacaggt gctttcaaac aaacctqcaa atqcaaccqa 180
```

```
tgattacctt tccagacaac atgaaacacg gacgatggtg ctaactttat ccagacatcg 240
gatgccggat taatgatatt acactgaaat gttcatttaa tgtataccta tttaagattt 300
aaaggcagtg atgatttaat tttaatatta agttgtacaa gtaacattct aagcaaaata 360
aaataagatt tacgtttttt tttttttaa taaaaataaa tttaatgggc ctttccgtac 420
tgaataaana taactaaaag atagaaacaa tccgggttac accgatttga actcaaatca 480
tgtaatggtt taaagggncg acaagaccta cttttaaaat tacngatcag taaagtt
<210> 10
<211> 55
<212> PRT
<213> Argiope sp.
<400> 10
Met Cys Val Thr Phe Ile Met Ala Leu Ser Tyr Pro Pro Leu Val Asp
                  5
                                     10
Ala Gly Phe Gly Cys Pro Phe Cys Gln Gly Glu Cys Asn Leu His Cys
                                 25
Lys His Val Val Lys Ala Arg Gly Gly Phe Cys Thr Gly Ala Phe Lys
                                                 45
                             40
Gln Thr Cys Lys Cys Asn Arg
<210> 11
<211> 37
<212> PRT
<213> Androctonus australis hector
<400> 11
Gly Phe Gly Cys Pro Phe Asn Gln Gly Ala Cys His Arg His Cys Arg
                                     10
Ser Ile Arg Arg Gly Gly Tyr Cys Ala Gly Leu Phe Lys Gln Thr
                                  25
             20
Cys Thr Cys Tyr Arg
```